Maryland Historical Trust

Maryland Inventory of Historic Properties number: PA-2198

Name: 130194/CORREN RDOVE	ETTAB, OF GINPOWERFAME
The bridge referenced herein was inventoried by the Mary Historic Bridge Inventory, and SHA provided the Trust w The Trust accepted the Historic Bridge Inventory on April determination of eligibility.	ith eligibility determinations in February 2001.
MARYLAND HISTO	
Eligibility Recommended	Eligibility Not RecommendedX
Criteria:ABCD Considerations: _	ABCDEFGNone
Comments:	
Reviewer, OPS:_Anne E. Bruder	Date:3 April 2001
Reviewer, NR Program:Peter E. Kurtze	Date:3 April 2001

MARYLAND INVENTORY OF HISTORIC BRIDGES HISTORIC BRIDGE INVENTORY MARYLAND STATE HIGHWAY ADMINISTRATION/MARYLAND HISTORICAL TRUST

MHT No. <u>BA-2688</u>

SHA Bridge No. B 0194 Bridge name Corbett Road over Tributary of Gunpowder Falls
LOCATION: Street/Road name and number [facility carried] Corbett Road
City/town Hereford 1.1 mi E of MD 45 Vicinity
County Baltimore
This bridge projects over: Road Railway Water X Land
Ownership: State County X Municipal Other
HISTORIC STATUS: Is bridge located within a designated historic district? Yes No _X_ National Register-listed district National Register-determined-eligible district Locally-designated district Other
Name of district
BRIDGE TYPE: Timber Bridge: Beam Bridge: Truss -Covered Trestle Timber-And-Concrete
Stone Arch Bridge
Metal Truss Bridge
Movable Bridge: Swing Bascule Single Leaf Bascule Multiple Leaf Vertical Lift Retractile Pontoon
Metal Girder: Rolled Girder Rolled Girder Concrete Encased Plate Girder Plate Girder Concrete Encased
Metal Suspension
Metal Arch
Metal Cantilever
Concrete X: Concrete Arch Concrete Slab X Concrete Beam Rigid Frame
Other Type Name

DESCRIPTION: Setting: Urban	Small town	RuralX	
Describe Setting: Bridge B0194 carries Corbet	tts Road in a east-west dir ection. The area is relative	rection over a tributary of Gunpowder Fallely undeveloped with only a farmstead with	
pier. It was built in 1922 and out to out width is 24.0 feet.	concrete slab on stone and reconstructed in 1989. The The skew is 20 degrees. T are stone and the south co	I concrete abutments with a concrete center curb to curb width is 21.8 feet and the decrete spans are 13.0 feet with a total length concrete. The parapets are solid concrete an araffic and is not posted.	ck of
		good condition. The concrete parapets have and the masonry portions of both abutment	
Discuss Major Alterations:			
The bridge was rebuilt in 198	39 with a new concrete decl	k, two new concrete wingwalls and parapet	s.
HISTORY:			
This date is: Actual X	Estimated Design plans County b	original bridge 1922, reconstructed 1989 oridge files/inspection form X	
WHY was the bridge built? The need for a more efficient following World War I.	nt transportation network	and increased load capacity in the decade	es
WHO was the designer? State Highway Administration	on		
WHO was the builder? Unknown			
WHY was the bridge altered The original bridge was buil		cted in 1989 to carry heavier loads.	
Was this bridge built as par As part of an effort by the S		building campaign? acity on secondary roads during the 1920s.	

SURVEYOR/HISTORIAN ANALYSIS:

This bridge may have I	National Register significance	e for its association with:
A - Events	B- Person	
C- Engineering/	architectural character	

This bridge is located near, but outside of, the My Lady's Manor National Register Historic District.

Was the bridge constructed in response to significant events in Maryland or local history? Original bridge, yes.

Reinforced concrete slab bridges are a twentieth century structure type, easily adapted to the need for expedient engineering solutions. Reinforced concrete technology developed rapidly in the early twentieth century with early recognition of the potential for standardized design. The first U.S. attempt to standardize concrete design specifications came in 1903-04 with the formation of the Joint Committee on Concrete and Reinforced Concrete of the American Society of Civil Engineers.

Maryland's road and bridge improvement programs mirrored economic cycles. The first road improvement program of the State Roads Commission was a 7 year program, starting with the Commission's establishment in 1908 and ending in 1915. Due to World War I, the period from 1916 -1920 was one of relative inactivity; only roads of first priority were built. Truck traffic resulting from war-related factories and military installations generated new, heavy traffic unanticipated by the builders of the early road system. From 1920 to 1929, numerous highway improvements occurred in response to the increase in Maryland motor vehicles from 103,000 in 1920 to 320,000 in 1929, with emphasis on the secondary system of feeder roads which moved traffic from the primary roads built before World War I. After World War I, Maryland's bridge system also was appraised as too narrow and structurally inadequate for the increasing traffic, with plans for an expanded bridge program to be handled by the Bridge Division, set up in 1920. In 1920 under Chapter 508 of the Acts of 1920 the State issued a bond of \$3,000,000.00 for road construction; the primary purpose of these monies was to meet the state obligations involving the construction of rural post roads. The secondary purpose of these monies was to fund [with an equal sum from the counties] the building of lateral roads. The number of hard surfaced roads on the state system grew from 2000 in 1920 to 3200 in 1930. By 1930, Maryland's primary system had become inadequate to the huge freight trucks and volume of passenger cars in use, with major improvements occurring in the late 1930s. Most improvements to local roads waited until the years after World War I.

With a diverse topographical domain encompassing numerous small and large crossings, Maryland engineers quickly recognized the need for expedient design and construction.

In the early years, there was a need to replace the numerous single lane timber bridges. Walter Wilson Crosby, Chief Engineer stated in 1906, "The general plan has been to replace these [wood bridges] with pipe culverts or concrete bridges and thus forever do way with the further expense of the maintenance of expensive and dangerous wooden structures". Within a few years, readily constructed standardized bridges of concrete were being built throughout the state.

The creation of standard plans and a description of their use was first announced in the 1912-15 Reports of the State Roads Commission whereby bridges spanning up to 36 feet were to use standardized designs.

Published on a single sheet, the 1912 Standard Plans included those structures that were amenable to such an approach: slab spans, (deck) girder spans, box culverts, box bridges, abutments, and piers

(State Roads Commission 1912). Slab spans, with lengths of 6 to 16 feet in two foot increments, featured a solid parapet that was integrated into the slab, with a roadway of 22 feet.

In the <u>Report</u> for the years 1916-1919, a revision of the standard plans was noted:

During the four years covered by this report, it has been found necessary to revise our standard plans for culverts and bridges, to take care of the increased tonnage which they have been forced to carry. Army cantonments...increased their operations several hundred per cent, and the brunt of the enormous truck traffic resulting therefrom, was borne by the State Roads of Maryland. In addition to these war activities, freight motor lines from Baltimore to Washington, Philadelphia, New York, and various points throughout Maryland, and the weight of many of these trucks when loaded, was in excess of the loads for which our early bridges were designed (State Roads Commission 1920:56).

Published on separate sheets, the new standard plans (State Roads Commission 1919) for slab bridges reveal that the major changes was an increase in roadway width from 22 feet to 24 feet and a redesign of the reinforcement. The slab spans continued to feature solid parapets integrated into the span. The range of span lengths remained 6 to 16 feet, but the next year (1920) witnessed the issue of a supplemental plan for a 20 foot long slab span (State Roads Commission 1920).

Based upon documentary evidence, Baltimore County and City were the early pioneers in concrete bridge building in Maryland. The first reinforced concrete bridge documented in Maryland was the bridge at Sherwood Station, built in 1903 by Baltimore County.

Evidence from historic maps suggests that almost all of the extant concrete slab bridges built before 1940 in Baltimore County replaced earlier bridges. With the exception of two bridges, all of these structures lie on roads whose alignments have changed little since the middle of the nineteenth century. The two exceptions are both located on Shelbourne Avenue in Arbutus. Shelbourne Avenue does not appear on the 1850 map of Baltimore County but does appear on the 1915 map. Both concrete slabs bridges on Shelbourne Avenue, however, were built after 1915. The evidence therefore suggests that these two bridges were also built to replace previous structures.

When the bridge was built and/or given a major alteration, did it have a significant impact on the growth and development of the area?

There is no evidence to suggest that the construction of this bridge had a significant impact on the growth and development of this area.

Is the bridge located in an area which may be eligible for historic designation? Would the bridge add to or detract from the historic/visual character of the potential district? This bridge is not located in an area which may be eligible for historic designation.

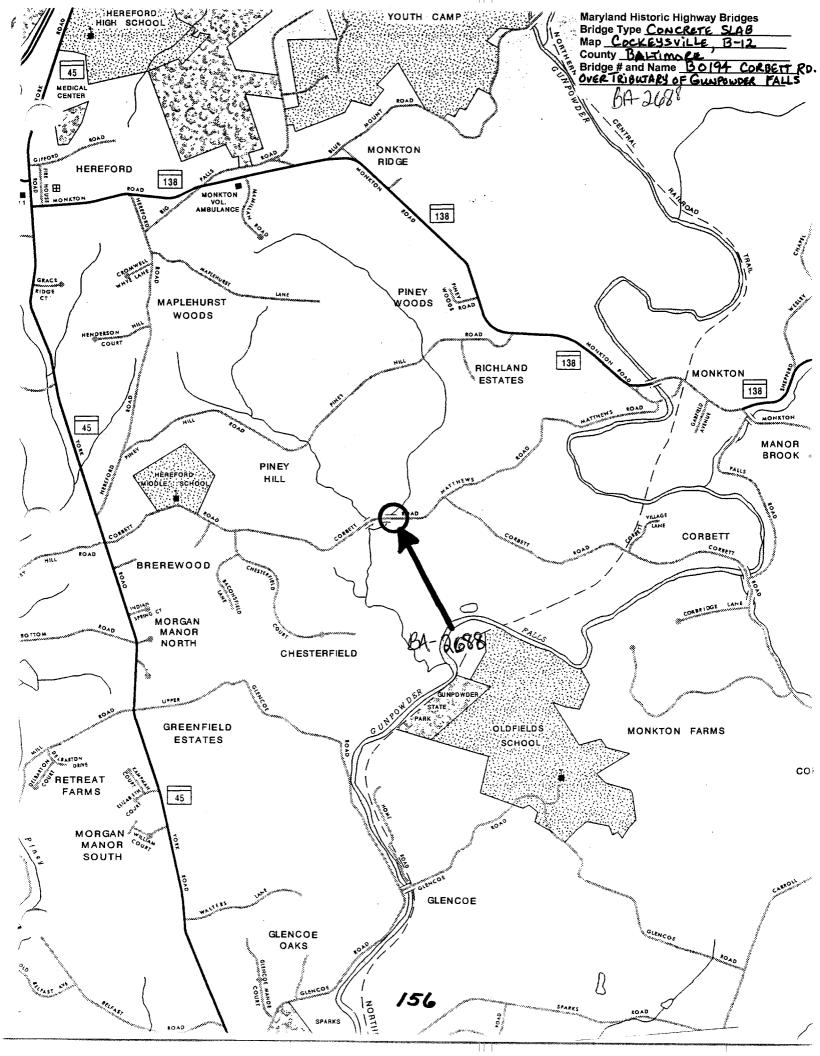
Is the bridge a significant example of its type? No, the bridge was reconstructed in 1989.

Does the bridge retain integrity of important elements described in Context Addendum? No, this bridge was reconstructed in 1989, with replacement of whole superstructure, two wingwalls and most of pier.

Is the bridge a significant example of the work of a manufacturer, designer, and/or engineer? The bridge is not a significant example of the work a manufacturer, designer, and/or engineer.

No additional study will be needed before an	n evaluation of the significance of this bridge is made.
BIBLIOGRAPHY:	
County inspection/bridge files X Other (list):	SHA inspection/bridge files
SURVEYOR:	
Date bridge recorded08/15/95	
Name of surveyor Colin Farr	
Organization/Address P.A.C. Spero & Com	pany, Suite 412, 40 West Chesapeake Ave., Baltimore,
MD 21204	
Phone number (410) 296-1635	FAX number (410) 296-1670

Should the bridge be given further study before an evaluation of its significance is made?





Inventory # <u>BA-2688</u>
Name CURBETT RO WER A TRIBUTARY TO
County/State BALTIMORE COUNTY/MO
Name of Photographer DAVE DEHL
Date
Location of Negative SHA
Description EAST APPROACH LUDKING WEST
Number Y of 3975



Inventory #B	A-2688
10194 - CUY	RBETT RO OVER A TRIBUTARY TO UNPOWDER FALLS
County/State	BALTIMORE COUNTY IMO
Name of Phot	ographer DAVE DIEAL
Date	95
Location of N	egative SHA
Description	NORTH ELEVATION LOOKING
_	SOUTH
2 Number 8	of 325



Inventory # <u>BA - Z68</u> 8
BUIGH- CURBETT RD UVER A TRIBUTARY TO Name GUNPOWDER FALLS
Name GUNPOWORR FALLS
County/State BATIMORE COUNTY MD
Name of Photographer DAUE DIEHL
Date 1 95
Location of Negative SHA
Description OLD STONE FARM HOUSE 100
YARDS FRUM BRIDGE
1 5
Number 6 of 31



Inventory # 8A - 2688
BUGH-CORBETT RO OVER A TRIBUTARY
Name TO GUNDINIOER FALLS
County/State BAZTIMURE COUNTY/MO
Name of Photographer DAVE DIEHL
Date 195
Location of Negative SHA
Description SOUTH ELEVATION WOKING
EAST
4 5
Number 7 of 315



nventory # EA 2688
180194-CORBETT RO OVER ATRIBUTARY Name TO GUN PUN DER FALLS
County/State BALTIMORE COUNTY IMP
Name of Photographer DAVE DIEAL
Date
Location of Negative SHA
Description WEST APPROPRIAL LOOKING
EAST
Number 8 of 395
I VUITIOCI - O O I